

ABSTRACT

A process for transforming organic carbon into removable carbonate and oxalate in Bayer process liquor, including decoloration is provided involving the steps of contacting an ozone-oxygen mixture with a Bayer process liquor, reducing the foam formed by the Bayer process liquor, controlling the temperature of the Bayer process liquor, and eliminating excess ozone in the offgas of the ozonation step, thereby reducing organic impurities in the Bayer process liquor.